## CLAIMS

- 1. A method for enhancing survival or proliferation, or both, of a neural stem cell in a liquid medium, the method comprising the step of overexpressing Galectin-1 in the neural stem cell.
- 2. A method for enhancing survival or proliferation, or both, of a neural stem cell in a liquid medium, the method comprising the step of overexpressing Galectin-3 in the neural stem cell.
- 3. A method for enhancing survival or proliferation, or both, of a neural stem cell in a liquid medium, the method comprising the step of culturing the neural stem cell in a liquid medium containing Galectin-1.
- 4. A method for enhancing survival or proliferation, or both, of a neural stem cell in a liquid medium, the method comprising the step of culturing the neural stem cell in a liquid medium containing Galectin-3.
- 5. The method of claim 1 or 3, wherein the liquid medium comprises a neural stem cell conditioned medium.
- 6. The method of claim 1 or 3, wherein the liquid medium comprises a neurosphere conditioned medium.
- 7. The method of claim 1 or 3, wherein the liquid medium comprises an OP cell line conditioned medium.
- 8. A pharmaceutical composition comprising as an active ingredient a neural stem cell in which Galectin-1 is overexpressed and improving a higher cerebral function damaged by cerebral ischemia.
- 9. A pharmaceutical composition comprising as an active ingredient a neural stem cell in which Galectin-3 is overexpressed, and improving a higher cerebral function damaged by cerebral ischemia.
- 10. The pharmaceutical composition of claim 8 or 9, wherein the higher cerebral function is motor function.
- 11. The pharmaceutical composition of claim 8, wherein the higher cerebral function is sensory function.
- 12. A therapeutic method for cerebral ischemia, comprising

improving a symptom derived from cerebral ischemia by transplanting a neural stem cell in which Galectin-1 is overexpressed in a mammalian other than a human.

- 13. A therapeutic method for cerebral ischemia, comprising improving a symptom that originates in cerebral ischemia by transplanting a neural stem cell in which Galectin-3 is overexpressed in a mammalian other than a human.
- 14. An enhancer for enhancing neurite extension when a neural stem cell differentiates, the enhancer comprising Galectin-1 or Galectin-3 as an active ingredient.
- 15. A method for enhancing neurite extension when a neural stem cell differentiates, the method comprising the step of overexpressing Galectin-1 in the neural stem cell.
- 16. A method for enhancing neurite extension when a neural stem cell differentiates, the method comprising the step of overexpressing Galectin-3 in the neural stem cell.
- 17. An enhancer for enhancing in vivo proliferation of a neural stem cell in a vertebrate, the enhancer comprising Galectin-1 or Galectin-3 as an active ingredient.
- 18. A method for enhancing in vivo proliferation of a neural stem cell in a normal individual vertebrate, wherein Galectin-1 or Galectin-3 is injected into the brain.
- 19. A method for enhancing in vivo proliferation of a neural stem cell in a vertebrate other than a human, wherein Galectin-1 or Galectin-3 is injected into the brain.
- 20. An enhancer for enhancing in vivo proliferation of an SVZ astrocyte in a vertebrate, the enhancer comprising Galectin-1 or Galectin-3 as an active ingredient.
- 21. A method for enhancing in vivo proliferation of an SVZ astrocyte in a normal individual vertebrate, wherein Galectin-1 or Galectin-3 is injected into the brain.
- 22. A method for enhancing in vivo proliferation of an SVZ astrocyte in a vertebrate other than a human, wherein Galectin-1 or Galectin-3 is injected into the brain.
- 23. A method for assaying a target substance added into a liquid medium for activity that enhances survival or

proliferation, or both, of a neural stem cell, the method comprising the steps of:

seeding a neural stem cell at a clonal concentration, using an assay medium composed of a basal medium incapable of inducing proliferation of a neural stem cell under the situation of having been seeded at the clonal concentration; and

determining whether or not the seeded neural stem cell can proliferate in the assay medium.

24. A method for assaying a target substance added into a liquid medium for activity that enhances survival or proliferation, or both, of a neural stem cell, the method comprising the steps of:

selecting a CD15+ neural stem cell;

seeding the CD15+ neural stem cell selected at a clonal concentration, using an assay medium composed of a basal medium incapable of inducing proliferation of a neural stem cell under the situation of having been seeded at the clonal concentration; and

determining whether or not the seeded neural stem cell can proliferate in the assay medium.

- 25. The assay method of claim 23 or 24, wherein the seeding is performed at the clonal concentration by placing one neural stem cell per well of a culture plate.
- 26. A screening method for identifying an active substance with activity that enhances survival or proliferation, or both, of a neural stem cell among a plurality of target substances, the method comprising identifying the active substance by the assay method of any one of claims 23 to 25.
- 27. The method of any one of claim 1, 3, 5, 6, 7, 15, 18, 19, 21, or 22, wherein the Galectin is a C-S mutant Galectin.
- 28. The pharmaceutical composition of claim 8 or 11, wherein the Galectin-1 is a C-S mutant Galectin.
- 29. The therapeutic agent for cerebral ischemia of claim 12, wherein the Galectin-1 is a C-S mutant Galectin.
- 30. The enhancer of any one of claim 14, 17, or 20, wherein

the Galectin-1 is a C-S mutant Galectin.